

## CLAIMS:

We claim:

1. A mobile outrigger scaffold using ~~the at least two~~ at least two vertical structure members ~~of a structure for~~ floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising:

a deck support bracket, being a horizontal bracket for deck support ~~also referred to as a deck support bracket~~ having a restraint end and a supporting end;

a rectangular support plate having a flat side to be placed against a vertical structural member of a structure, said vertical structure member having an exterior edge toward the exterior of said structure and an interior edge toward the interior of said structure, said rectangular support plate being oriented from the interior edge to the exterior edge of such a vertical structural member;

said support plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

said support plate having ends shaped in a C-fold parallel to said vertical plate axis;

said ends shaped in a C-fold having C-folds being sufficiently far apart so that said flat side of said plate having said ends shaped in C-folds can be placed against a vertical structural member with said C-folds of said ends facing said vertical structural member;

at least one of said ~~C-folds~~ ends shaped in a C-fold having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said ~~opposite other end shaped in a C-fold~~ snugly against a vertical structural member;

said support plate having two cylindrical protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said deck support bracket having apertures to ~~accommodate~~ matingly receive said cylindrical protrusions;

at least one of said protrusions having a securing means to restrain said deck support bracket onto said at least one protrusion;

so that when two of said mobile outrigger scaffolds are placed ~~received~~ on adjacent

structural members of a structure, and for each said mobile outrigger scaffold said clamping mechanism is tightened snugly and said deck support bracket is placed on said cylindrical protrusions of each said mobile outrigger scaffold, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement of a user exterior to the vertical structural member of the structure on said deck planks.

2. The mobile outrigger scaffold according to claim 1, further comprising:

said deck support bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end.

3. A mobile outrigger scaffold using the at least two vertical structure members of a structure for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

- a deck support bracket having a horizontal bracket and an angled support bracket
- said horizontal bracket having a restraint end and a supporting end;
- said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;
- said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;
- said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;
- two rectangular support plates having a flat side to be placed against a vertical structural member of a structure, said vertical structure member having an exterior edge toward the exterior of said structure and an interior edge toward the interior of said structure, each said rectangular support plate being oriented from the interior edge to the exterior edge of such a vertical structural member,
- said support plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;
- said support plates having ends shaped in a C-fold parallel to said vertical plate axis;
- one of said support plates being designated an upper support plate and the other of said support plates a lower support plate

— ~~said ends~~ said ends shaped in a C-fold having C-folds being sufficiently far apart so that said flat side of said support plates having said ends shaped in C-folds can be placed against a vertical structural member with said C-folds of said ends facing said vertical structural member;

at least one of said ~~C-folds~~ ends shaped in a C-fold on at least one of said support plates having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said ~~opposite~~ other end shaped in a C-fold of each said plate snugly against a said vertical structural member;

said support plates each having at least one cylindrical protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~ receive said at least one cylindrical protrusions of said upper plate;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~ receive said at least one cylindrical protrusions of said lower plate;

at least one of said at least one cylindrical protrusions on each said support plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

so that when two of said mobile outrigger scaffolds are ~~placed~~ received on adjacent structural members of a structure, and for each said mobile outrigger scaffold said upper and lower support plates are placed one above the other on a structural member of a structure, each said clamping mechanism is tightened snugly, and each said horizontal bracket is placed on each said upper support plate and each said horizontally oriented bracket is placed on each said lower support plate, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement of a user exterior to ~~the~~ a vertical structural member of a structure on deck planks set on said horizontal brackets.

4. A mobile outrigger scaffold using ~~the~~ at least two vertical structure members of a structure for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket being a horizontal bracket for deck support also referred to as a deck support bracket support, having a restraint end and a supporting end;

said ~~horizontal~~ deck support bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

three rectangular plates having a flat side to be placed against a vertical structural member of a structure;

said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

two of said plates being support plates to be placed ~~on opposite sides of a vertical structural member, one interior to a vertical structural member of a structure, said vertical structural member having an exterior face toward the exterior of said structure and an interior face toward the interior of said structure, one of said support plates to be placed adjacent to said interior face, and one on the of said support plates to be placed adjacent to said exterior face of the same vertical structural member;~~

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends shaped in a C-fold having C-folds being sufficiently far apart so that said flat side of said plates having said ends shaped in C-folds can be placed against a vertical structural member with said C-folds of said ends facing said vertical structural member;

at least one of said ends ~~having C-folds on each~~ shaped in a C-fold on each said support plate having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said ~~opposite~~ other end shaped in a C-fold on each said plate snugly against ~~a~~ said vertical structural member;

said two of said support plates each having at least one cylindrical plate holder protrusion projecting from each of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold;

said third of said three plates being a bracket plate having a flat side to be oriented toward a vertical structural member of a structure and said flat side of said third plate having apertures to enable said bracket plate to be slid on enabling it to receive said cylindrical plate holder protrusions snugly retaining said third of said three plates against each of said two said support plates when said support plates are placed on opposite sides of a vertical structure member and thereby enabling said bracket plate to be oriented from ~~the~~ said interior face to ~~the~~ said exterior face of such a vertical structural member;

at least one of said three plates, said at least one plate at least being said bracket plate, having two cylindrical support protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~matenagly receive said cylindrical support protrusions;

at least one of said cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

at least one of said cylindrical support protrusions having a securing means to restrain said horizontal bracket on to said at least one cylindrical support protrusions;

so that when two of said mobile outrigger scaffolds are ~~placed~~received on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said clamping mechanism is tightened snugly and said horizontal bracket is mounted on said cylindrical protrusions for each said mobile outrigger scaffold, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement exterior of a user to the vertical structural member of a structure on said deck planks.

5. A mobile outrigger scaffold using ~~that~~ least two vertical structure members of a structure for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;  
said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

six rectangular plates having a flat side to be placed against a vertical structural member of a structure, three of said rectangular plates being upper rectangular plates and three of said rectangular plates being lower rectangular plates;

said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

two of said upper plates and two of said lower plates being support plates to be placed on opposite sides of a vertical structural member, one of each of said upper and lower support plates to be placed interior to a vertical structural member having corners defining four sides including two faces, said vertical structural member having an exterior face toward the exterior of said structure and an interior face toward the interior of said structure, one of each said upper and lower support plates to be placed adjacent to said interior face, and one each of said upper and lower support plates to be placed on the adjacent to said exterior face of the same vertical structural member,

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends shaped in a C-fold having C-folds being sufficiently far apart so that said flat side of said support plates having said ends shaped in C-folds can be placed against a vertical structural member with said C-folds of said ends facing said vertical structural member;

at least one of said C-folds on at least one of ends shaped in a C-fold on each said support plates having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said opposite other end shaped in a C-fold snugly against a said vertical structural member;

said two of said upper support plates and said two of said lower support plates each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions when said support plates are disposed on such a vertical structural member;

said third of said upper three plates being an upper bracket plate and said third of said lower three plates being a lower bracket plate;

said bracket plates each having apertures to enable said bracket plates to be slid externally receive said at least one cylindrical plate holder protrusions retaining each of said bracket plates snugly against each of said two said upper support plates and lower support plates when said support plates are placed on opposite sides/faces of a vertical structure member, thereby orienting said bracket plates enabling said bracket plates to be oriented from said interior face to said from the interior face to the exterior face of such a vertical structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket

holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~receive said at least one cylindrical bracket holder protrusion of said upper bracket plate;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~receive said at least one cylindrical bracket holder protrusion of said lower bracket plate;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are ~~placed~~received on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower support plates are placed one above the other on a structural member of a structure on opposite sides of such a structural member, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said deck support bracket is placed on each set of upper and lower support plates, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure on deck planks set on said deck planks;

and further, so that upon ~~mounting~~receipt of one of said mobile outrigger scaffolds on a corner structural member of a structure on the outside of such a structural member toward a third vertical structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a third mobile outrigger scaffold having upper and lower support plates having similar cylindrical bracket protrusions as said bracket plates is ~~mounted~~received on such third vertical structural member around such a corner structural member, and a third deck support bracket is ~~slide~~received on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is ~~slide~~received on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger

scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement of a user exterior to the vertical structural members of a structure around the outside of a corner of such a structure on such deck planks set on said deck support brackets.

6. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding mountable around the corner of a structure using first, second and third vertical structural members including the corner vertical structural member as the second vertical structural member, said vertical members having four corners defining sides, two of which are flat faces, and said faces being parallel, comprising:

at least four deck support brackets each having a horizontal bracket and an angled support bracket;

said horizontal brackets having a restraint end and a supporting end;

each said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

each said angled support bracket of said deck support bracket being attached to each said horizontal bracket of said same deck support bracket proximate to said restraint end of said each said horizontal bracket;

said angled support bracket of each said deck support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket of each said same deck support bracket;

ten rectangular plates having a flat side to be placed against a vertical structural member of a structure, said first and second vertical structural member having exterior faces toward the exterior of said structure and interior faces toward the interior of said structure, and said second and third vertical structural members having an exterior edge toward the exterior of said structure and an interior edge toward the interior of said structure;

five of said rectangular plates being upper rectangular plates and five of said rectangular plates being lower rectangular plates;

——said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;



two of said upper rectangular plates and two of said lower rectangular plates being support plates to be received on said first vertical structural member, one of each of said upper and lower support plates — ~~two of said upper rectangular plates and two of said lower rectangular plates being support plates to be placed on opposite sides of~~ to be received on said interior face of said first vertical structural member and one of each of said upper and lower support plates to be received on said exterior face of said first structural member;

~~adjacent to said corner~~ another two of said upper rectangular plates and two of said lower rectangular plates being support plates to be received on said second vertical structural member, one of each of said upper and lower support plates to be placed ~~received on said interior to a face of said second vertical structural member and one of each of said upper and lower support plates to be placed on the~~ received on said exterior face of a said second vertical structural member;  
 — ~~another two of said upper rectangular plates and another two of said lower rectangular plates being support plates to be placed on opposite sides of said second corner vertical structural member, one of each of said upper and lower support plates on said corner vertical structural member to be placed interior to said corner vertical structural member and one of each of said upper and lower support plates to be placed on the exterior face of said corner vertical structural member;~~

another one of said upper support plates and another one of said lower plates being support plates to be placed ~~received~~ on said third vertical structural member, oriented from the ~~said~~ interior edge to the ~~said~~ exterior edge of such a vertical structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends shaped in a C-fold having C-folds being sufficiently far apart so that said flat side of said support plates having said ends shaped in C-folds can be placed against a vertical structural member with said C-folds of said ends facing said vertical structural member;

at least one of said C-folds ~~sends shaped in a C-fold~~ on at least one of said support plates on each said vertical structural member having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said opposite other end shaped in a C-fold snugly against each said vertical structural member;

said upper support plates and said lower support plates for at least said first and second vertical structural members each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions

being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions for each lower and upper support plate when said support plates are ~~disposed on such~~ received on said vertical structural members;

four rectangular bracket plates having a flat side to be placed toward a vertical structural member of a structure, two of said rectangular bracket plates being upper bracket plates and two of said rectangular bracket plates being lower bracket plates;

said bracket plates each having apertures to enable said bracket plates to be ~~slid~~ received matingly onto said at least one cylindrical plate holder protrusions ~~snugly retaining said bracket plates~~ against each of said two said upper support plates and lower support plates when said support plates are placed on opposite faces of said first sides of and second vertical structure member, ~~thereby orienting members, thereby enabling said bracket plates to be oriented from the said interior face to the said exterior face of such a said~~ thereby enabling said bracket plates to be oriented from the said interior face to the said exterior face of such a said vertical structural members;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

at least said upper and lower support plates for said interior face of said corner structural member having cylindrical bracket holder protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~ receive matingly said at least one cylindrical bracket holder protrusion of said upper bracket plate and to accommodate said at least one cylindrical bracket holder protrusion of said upper support plate on said interior face of said corner vertical structural member;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~ receive matingly said at least one cylindrical bracket holder protrusion of said lower bracket plate and to ~~accommodate~~ receive matingly said at least one cylindrical bracket holder protrusion of said lower support plate on said interior face of said corner vertical structural member;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate and each said support plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when said upper plates and said lower plates are ~~mounted~~received on parallel lines on said three adjacent structural members of a structure, said upper support plates and said lower support plates ~~placed~~are received one above the other on a structural member of a structure on opposite sides of ~~such as each~~ said structural member, said clamping mechanisms are tightened snugly, said bracket plates are ~~mounted~~received on said cylindrical plate support protrusions of said support plates, and said deck support brackets are ~~placed~~received on each said upper and lower support plate on each vertical structural member, and when deck planks are ~~placed~~received on said deck support brackets, said mobile outrigger scaffolds permit movement of a user exterior to the vertical structural members of a structure on said deck planks set on said deck support brackets;

and further, so that if said three mobile outrigger scaffolds are located around and on the corner of ~~such as a~~ said structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement by a user exterior to the vertical structural members of a structure around the outside of a corner of ~~such as a~~ said structure on such deck planks set on said deck support brackets.

7. A mobile outrigger scaffold using ~~the at least two~~ at least two vertical structure members of a structure for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, said vertical structural members having a depth and width, said structure having an exterior and an interior, and each said vertical structure member having an exterior corresponding to said exterior of said structure, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket;  
said horizontal bracket having a restraint end and a supporting end;  
said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;  
said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;  
said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

at least one bracket support, being a first bracket support, for each of at least two vertical structure members, said at least one bracket support having a rectangular plate having a flat side to be placed against a vertical structural member of a structure,

said rectangular plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

said rectangular plate having ~~each~~ two ends shaped in at least one 90 degree end shaped in at least one 90 degree fold, thus constituting at least an L-fold on each end, said fold being approximately parallel to said vertical plate axis;

at least one of said ~~two ends shaped in at least one 90 degree folds on said one end~~ having a clamping mechanism exerting pressure interior to said end shaped in at least one 90 degree at least one 90 degree fold to pull said ~~opposite end having other end shaped in at least one 90 degree fold~~ snugly against a vertical structural member;

said ends ~~having said~~ shaped in at least one 90 degree fold being sufficiently far apart so that said flat side of said rectangular plate between said ends can be placed against a vertical structural member, and further so that one end can also be placed against said same vertical structural member and so that said opposite end with said clamping mechanism exerting pressure interior to said at least one 90 degree fold of said opposite end can be placed against said same vertical structural member;

said at least one bracket support having at least one cylindrical bracket holder protrusion projecting from said rectangular plate opposite said flat side protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~ receive said at least one cylindrical bracket holder protrusion of said upper bracket plate when said bracket support is situated on said vertical structural member generally from the inside to the ~~said interior to said exterior~~ of said structure;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~ receive a cylindrical bracket holder protrusion from a second bracket support situated below said first bracket support;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket onto at least one of said cylindrical bracket holder protrusions;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower bracket supports are placed one above the other on a structural member of a structure, when said clamping mechanisms are tightened snugly, and when each said deck support bracket is placed on sufficient bracket supports to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement by a user exterior to the vertical structural member of the structure on deck planks;

and further, so that ~~upon mounting of~~ when at least one of said mobile outrigger scaffolds is received on a second corner structural member of a structure on the ~~outside~~ exterior of such a structural member, and at least one of a second set of bracket supports is located on said corner structural member perpendicular to said at least one of said mobile outrigger scaffolds toward a third vertical structural member, and when each said deck support bracket is placed on sufficient bracket supports on said third vertical structural member, to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement by a user exterior to vertical structural members of the structure on deck planks around said corner.

8. A ~~The~~ mobile outrigger scaffold according to claim 7, further comprising:

said at least one bracket support having at least one cylindrical plate holder protrusion projecting from said two ends away from said flat side, said plate holder protrusions being perpendicular to said vertical plate axis, perpendicular to said flat side and pointing in correspondent directions when said support plates are disposed on such a vertical structural member;

and a rectangular safety plate having apertures located on the ends of said safety plate to enable mounting on said at least one cylindrical plate holder protrusion on each end of said bracket support on said cylindrical plate holder protrusions.

9. A mobile outrigger scaffold using at least one horizontal structure members for construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck  
planks from sliding over said restraint end;

said angled support bracket being attached to said horizontal bracket proximate to said  
restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting  
end of said horizontal bracket;

six rectangular plates having a flat side to be placed against a horizontal structural  
member of a structure;

four of said plates having a vertical plate axis to be parallel to said plate and  
perpendicular to a horizontal structural member against which said plate is to be placed;

of said four plates, two of said plates being arbitrarily designated left side support plates  
and two of said plates arbitrarily being designated right side support plates, all four plates being  
support plates to be placed ~~on opposite sides of~~ received on said horizontal structural member,  
one of each of said ~~upper and lower~~ right side support and left side support plates to be placed  
~~interior to~~ received on top of a horizontal structural member and one of each of said ~~upper and~~  
~~lower~~ right side support and left side support plates to be placed ~~on the exterior face of~~ received  
beneath a horizontal structural member;

said support plates having ends shaped in a C-fold ~~parallel~~ perpendicular to said vertical  
plate axis;

said ends ~~having C-fold~~ shaped in a C-fold being sufficiently far apart so that said flat  
side of said support plates having said ~~C-fold~~ ends shaped in a C-fold can be placed against ~~said~~  
horizontal structural member;

at least one of said ~~C-fold~~ ends shaped in a C-fold on at least one of said support plates  
having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull  
said ~~opposite~~ other end shaped in a C-fold snugly against ~~said~~ horizontal structural member;

said two of said left side support plates and said two of said right side support plates each  
having at least one cylindrical plate holder protrusion projecting from at least one of said at least  
one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said  
vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in

correspondent directions when said support plates are disposed on such ~~are~~ received on said horizontal structural member;

said remaining two of said six plates being bracket plates;

said bracket plates each having apertures to enable said bracket plates to be ~~slid~~ received matingly onto said at least one cylindrical plate holder protrusion ~~snugly~~ against each of said two said upper support plates and lower left side support and right side support plates when said support plates are placed on opposite sides of a vertical structure member, thereby orienting said bracket plates from the interior face to the exterior face of such a vertical ~~received~~ above and below said horizontal structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said horizontal structural member;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~ matingly receive said at least one cylindrical bracket holder protrusion of said bracket plates;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~ matingly receive said at least one cylindrical bracket holder protrusion of said bracket plates;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said cylindrical bracket holder protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are placed on structural members of a structure, and for each said mobile outrigger scaffold, said support plates are placed on at least one structural member of a structure ~~on opposite sides of such a structural member~~, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said horizontal bracket is placed on each said lower support plate, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement by a user exterior to a vertical structural member of ~~at the structure on deck planks set on said deck planks;~~ support brackets;

and further, so that upon mounting of one of said mobile outrigger scaffolds on a corner

structural member of a structure on the outside of such a structural member toward a third vertical structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a third mobile outrigger scaffold having upper and lower support plates having similar cylindrical bracket protrusions as said bracket plates is mounted on such third vertical ~~received on said third~~ perpendicular structural member around such a corner structural member, and a third deck support bracket is ~~slide~~ received on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is ~~slide~~ received on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement by a user exterior to vertical structural members of a structure around the outside of ~~at the corner of such a~~ the structure on such deck planks set on said deck support brackets.

10. A mobile outrigger scaffold using at least two horizontal structure structural members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

- a deck support bracket having a horizontal bracket and an angled support bracket
- said horizontal bracket having a restraint end and a supporting end;
- said supporting end being shaped to have a straight end perpendicularly oriented to said horizontal bracket;

- said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

- said angled support bracket being attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

- said angled support bracket having a straight end perpendicularly oriented to said supporting end of said horizontal bracket;

- six rectangular plates having a flat side to be placed against a horizontal structural member of a structure, three of said rectangular plates being upper rectangular plates and three of said rectangular plates being lower rectangular plates;



four of said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

of said four plates, two of said upper plates and two of said lower plates being support plates to be placed on opposite sides of and received on said at least two horizontal structural members, one of each of said upper and lower support plates to be placed interior to and received on top of a first horizontal structural member and one of each of said upper and lower support plates to be received placed on the horizontal face of and on top of a second horizontal structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds shaped in a C-fold being sufficiently far apart so that said flat side of said support plates having said C-folds ends shaped in a C-fold can be placed against a horizontal structural member;

at least one of said C-folds ends shaped in a C-fold on at least one of said support plates having a clamping mechanism exerting pressure interior to said end shaped in a C-fold to pull said opposite other end shaped in a C-fold snugly against a horizontal structural member;

said two of said upper support plates and said two of said lower support plates each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions when said support plates are disposed on such and received on said horizontal structural member;

said third of said upper three plates being an upper bracket plate and said third of said lower three plates being a lower bracket plate;

said bracket plates each having apertures to enable said bracket plates to be slid received matingly onto said at least one cylindrical plate holder protrusion snugly against each of said two said upper support plates and two said lower support plates when said support plates are placed on opposite sides of a said horizontal structural member, thereby orienting said bracket plates from the interior face to the exterior face of such a horizontal structural member; members;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line parallel to said vertical plate axis of said support plates;

said supporting end of said horizontal bracket having apertures to accommodate matingly

receive said at least one cylindrical bracket holder protrusion of said upper bracket plate;

said horizontally oriented end of said angled bracket having apertures to accommodate receivingly receive said at least one cylindrical bracket holder protrusion of said lower bracket plate;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower support plates are placed on a horizontal structural member of a structure ~~on opposite sides of such a structural member~~, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said deck support bracket is mounted on each set of support plates, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement by a user exterior to a horizontal structural member of ~~the~~ structure on deck planks set on said deck ~~planks; support brackets;~~

and further, so that upon mounting of one of said mobile outrigger scaffolds on a corner structural member of a structure on the outside of such a structural member toward a third structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a third mobile outrigger scaffold having support plates having similar cylindrical bracket protrusions as said bracket plates is mounted on such third vertical structural member around such a corner structural member, and a third deck support bracket is slid on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is slid on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement by a user exterior to horizontal structural members of ~~the~~ structure around the outside of a corner of such a structure on such

deck planks set on said deck support brackets.

11. A mobile outrigger scaffold using horizontal structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, mountable adjacent to and around the corner of said structure, ~~said horizontal structural members having a depth and width,~~ comprising:

a deck support bracket having a horizontal bracket and an angled support bracket

said horizontal bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

at least one bracket support, being a first bracket support having a rectangular plate having a flat side to be placed against a horizontal structural member of a structure,

said rectangular plate having a horizontal plate axis to be parallel to said plate and parallel to a horizontal structural member against which said plate is to be placed;

said rectangular plate having each end shaped in at least one 90 degree fold, thus constituting at least an L-fold on each end, said fold being approximately parallel to said horizontal plate axis;

at least one of said ends shaped in at least one 90 degree folds on said one end having a clamping mechanism exerting pressure interior to said at least one 90 degree fold teand pull said oppositeother end shaped in at least one 90 degree fold snugly against a horizontal structural member;

said ends ~~having said shaped in~~ at least one 90 degree fold being sufficiently far apart so that said flat side of said rectangular plate can be placed against a horizontal structural member, so that one end can also be placed against said same horizontal structural member and so that said opposite end with said clamping mechanism exerting pressure interior to said at least one 90 degree fold of said opposite end can be placed against said same horizontal structural member;

said at least one bracket support having at least one cylindrical bracket holder protrusion

projecting from said rectangular plate opposite said flat side protruding perpendicularly to said plate, and located on a line parallel to said horizontal plate axis;

said supporting end of said horizontal bracket having apertures to ~~accommodate~~receive said at least one cylindrical bracket holder protrusion of said upper bracket plate when said bracket support is situated on said horizontal structural member generally from the inside to the exterior of said structure;

said horizontally oriented end of said angled bracket having apertures to ~~accommodate~~receive a cylindrical bracket holder protrusion from a second bracket support situated below said first bracket support;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket onto at least one of said cylindrical bracket holder protrusions;

so that when at least two of bracket supports and said brackets are placed ~~placed~~received in adjacent horizontal positions on horizontal structural members of a structure, when said clamping mechanisms are tightened snugly, and when each said bracket support has sufficient cylindrical protrusions to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement by a user exterior to a horizontal structural member of ~~at the~~ structure on said deck planks.

12. AThe mobile outrigger scaffold according to claim 11, further comprising:

said at least one bracket support having at least one cylindrical plate holder protrusion projecting from said two ends way from said flat side, said plate holder protrusions being parallel to said horizontal plate axis, perpendicular to said flat side and pointing in correspondent directions when said support plates are ~~disposed~~received on such a horizontal structural member;

and a rectangular safety plate having apertures located on the ends of said safety plate to enable mounting on said at least one cylindrical plate holder protrusion on each end of said bracket support on said cylindrical plate holder protrusions.

13. (not elected, no longer pending)

14. (not elected, no longer pending)
15. (not elected, no longer pending)
16. (not elected, no longer pending)
17. (not elected, no longer pending)
18. (not elected, no longer pending).
19. (not elected, no longer pending)
20. (not elected, no longer pending)
21. (not elected, no longer pending)
22. A mobile outrigger scaffold using the structural members of a structure for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:
  - at least two deck support brackets having a horizontal component for supporting a deck plank;
  - each said deck support bracket having at least one restraint to prevent deck planks from sliding over said restraint end;
  - at least  $n$  rectangular deck support plates for each deck support bracket,  $n$  being equal to or greater than one, each rectangular plate having  $m$  means for retaining said bracket,  $m$  being greater than or equal to one,  $m+n$  being equal to at least two, said  $m$  means for retaining protruding perpendicularly to said plate;
  - each said rectangular plate having a flat side to be mounted adjacent to a structural member;
  - said at least one means for retaining said bracket being positioned to maintain said horizontal component for supporting a deck plank in a horizontal position;

said at least one means for retaining said bracket having a first means for securing said bracket;

each said at least two deck support brackets having means for temporarily mounting each said bracket to said means for retaining on each said at least one rectangular plate;

said rectangular plate having a second means for temporarily mounting said plate to a structural member;

said second means for temporarily mounting said plate having at least two folds of at least 90 degrees;

said second means for temporarily mounting said n plates to a structural member having a means for clamping said plate to a structural member;

so that when said deck support plates are placed received on adjacent vertical structural members of a structure, and said means for clamping said plate to a structural member are tightened snugly, when said deck support brackets are placed received on said means for retaining, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffold permits movement by a user exterior to a vertical structural member of the structure on said deck planks;

and further, so that when said deck support plates are placed horizontally adjacent on structural members of a structure, and said means for clamping said plate to a structural member are tightened snugly, when said deck support brackets are placed on said means for retaining, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffold permits movement by a user exterior to a vertical structural member of the structure on said deck planks.

23. The mobile outrigger scaffold according to claim 22 for mounting on three adjacent vertical columns, one of which columns is a corner column, further comprising:

at least four deck support brackets;

all rectangular plates being designated as support plates,

said at least n rectangular plates on said corner column being designated corner support plates;

said means for temporarily mounting said plate to a structural member having two ends;

said corner support plates each having at least one means for retaining projecting from at

least one of said at least one of two ends, said corner support plates having a third means for temporarily mounting said plate, said third means for retaining on each corner support plate being parallel to said flat side and protruding from said end perpendicular to said second means for temporarily mounting, and perpendicular to said first means for temporarily mounting said bracket, and each of said at least one third means for retaining and supporting pointing in a similar direction when said support plates are disposed adjacently on at least one vertical structural member;

another  $n/2$ ,  $n/2$  being at least one rectangular plates being designated bracket plates and each having at least one, and if  $n=1$ , not less than 2, means for retaining said bracket protruding perpendicularly to said plate;

said  $n/2$  rectangular plates having means for mounting to said third means for retaining on said support plates;

at least one means for retaining said bracket having a means for securing said bracket;

so that when at least one set of support plates of said mobile outrigger scaffolds are placed on adjacent vertical structural members of a structure, and said means for clamping said plate to a vertical structural member are tightened snugly, when said deck support brackets are placed on said means for retaining said bracket on said bracket plates, and when deck planks are placed on said horizontal brackets, and when said at least one set of two support plates and a bracket plate is placed on a corner vertical structural member with one support plate and one bracket plate facing the interior of the structure, and at least one support plate is placed facing said one support plate facing the interior of the structure on an adjacent vertical structural member, and another set of two support plates and one bracket plate is placed on an adjacent vertical structural member facing said bracket plate, and deck support brackets are placed on said bracket plates and on said facing support plates, and deck planks are placed on said brackets, said mobile outrigger scaffolds permit movement by a user exterior to a vertical structural member of the structure and around a corner of the structure on said deck planks.

24. (not elected, no longer pending in application)

25. (not elected, no longer pending in application)

26. (not elected, no longer pending in application)

27. (not elected, no longer pending in application)
28. (not elected, no longer pending in application)
29. (not elected, no longer pending in application)
30. (not elected, no longer pending in application)
31. (not elected, no longer pending in application)
32. (not elected, no longer pending in application)
33. (not elected, no longer pending in application)
34. (not elected, no longer pending in application)
35. (not elected, no longer pending in application)